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Number 84

September 1989



Farm Animal Welfare, January 1979-April 1989



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INTRODUCTION

The citations in this bibliography are selected from works by U.S. and foreign authors on all aspects of farm animal welfare as it relates to behavior and a wide variety of environmental variables. All citations are derived from the database AGRICOLA (AGRICultural OnLine Access), a database compiled by the National Agricultural Library (NAL) and its cooperators, and are a part of the NAL collection.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is provided in the publication.

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BPOSA. Shabalina, A.T. Harlow, Essex : Longman. British poultry science. July 1984. v. 25 (3). p. 297-301. Includes references. (NAL Call No.: DNAL 47.8 B77).

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AGPGA. Parry, M.A. London : Agricultural Education Association. Agricultural progress. 1986. v. 61. p. 46-54. Includes references. (NAL Call No.: DNAL 10 AG86).

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Pollock, W.E. Hurnik, J.F. Ottawa, Agricultural Institute of Canada. Canadian journal of animal science. Dec 1979. v. 59 (4). p. 799-803. ill. 8 ref. (NAL Call No.: 41.8 C163).

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Bonnette, E.D. Swett, L.A.; Kornegay, E.T.; Collins, E.R. Jr. Blacksburg, Va. : The Station. Animal science research report - Virginia Polytechnic Institute and State University. Virginia Agricultural Experiment Station. 1985. (4). p. 114-117. (NAL Call No.: DNAL SF1.A54).

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Casteilla, L. Orgeur, P.; Signoret, J.P. Amsterdam : Elsevier Science Publishers B.V. Applied animal behaviour science. Dec 1987. v. 19 (1/2). p. 111-118. ill. Includes references. (NAL Call No.: DNAL QL750.A6).

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loose material which can be both moulded by
their body and feet movements and manipulated
with their beaks during nest building. This
study attempted to define which of these two
functions the hen regards as more important.
When given a choice, hens opted for nests that
could be moulded by body and feet movements but
could not be manipulated with the beak rather
than nests that could not be moulded but could
be manipulated. When the importance of loose
material was assessed independently of whether
the nest could be moulded or not, hens did not
seem to regard its presence as essential. These
findings suggest that it is more important for
hens to have a nesting site with a substrate
that can be moulded with the body and feet than
one that can be manipulated with the beak. The
study then attempted to elucidate whether it is
the performance of nest-building motor patterns
or the attainment of the final moulded nest
that hens find rewarding. When given a choice
between pre-moulded nests and mouldable nests,
hens opted for the premoulded ones. The
frequencies of nest-building activities
performed in both nest types, however, were no
different. These findings suggest that the hen

has some 'need' to perform nest-building
behaviour but does not have to build a nest
herself; a pre-moulded nest is perfectly
acceptable as long as it allows the performance
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Petherick, J.C. Amsterdam : Elsevier. Applied animal ethology. Jan 1983. v. 9 (3/4). p. 367-371. ill. Includes references. (NAL Call No.: QL750.A6).

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The notion of ethological 'need', models of motivation and animal welfare.

ANBEA. Hughes, B.O. Duncan, I.J.H. London : Bailliere Tindall. The increasingly widespread use of the term ethological 'need', implying that the welfare of animals in intensive husbandry systems will suffer if they are unable to express a normal range of behaviour patterns, has been criticized on the grounds that the term has not been clearly defined nor does it rest on a solid scientific foundation. In this critical review, evidence is presented

which is consistent with the idea that there are cases in which the performance of behaviour itself does not motivationally significant consequences which are not necessarily related to functional requirements. For example, hens go through nest-building sequences during pre-laying behaviour, even though the nest they created previously is still available. This kind of finding is difficult to explain without involving the concept of ethological 'need'. Existing models of motivation are shown to be inadequate in explaining much of the behaviour seen in barren or impoverished environments, or when the animals are highly motivated in situations where consummatory behaviour is difficult to carry out. A modified model which can account for the occurrence of these stereotyped, abnormal and repetitive behaviour patterns is presented. The problems raised by equating the term 'need' with 'necessity' are discussed, particularly in the context of intensive environments where animals are faced with the task of occupying long periods of time with a limited range of behaviour patterns; the authors agree with Dawkins that one solution is its replacement by the concept of 'elasticity', but argue that the notion of 'necessity' may need to be broadened. Animal behaviour. Nov/Dec 1988. v. 36 (6). p. 1696-1707. Includes references. (NAL Call No.: DNAL 410 B77).

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Objective observations on the behaviour of fattening pigs.

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Observations on pig lying and dunging behaviour in finishing pens incorporating a raised slatted dunging area.

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Observations on the effects of stocking rate on the performance of gilts and boars to bacon weight (Housing, temperature).

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Olfactory cues and pig agonistic behavior: evidence for a submissive pheromone.

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Olfactory recognition between mother and calf in reindeer (*Rangifer t. tarandus* L.) (Social behavior).
Kallquist, L. Mossing, T. Amsterdam : Elsevier. Applied animal ethology. Aug 1982. v. 8 (6). p. 561-565. ill. Includes references. (NAL Call No.: QL750.A6).

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Duncan, P. Harvey, P.H.; Wells, S.M. London : Bailliere Tindall. Animal behaviour. Feb 1984. v. 32 (pt.1). p. 255-263. Includes references. (NAL Call No.: 410 B77).

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On the feeding and social behaviour of the laying hen.
Meunier-Salaun, M.C. Faure, J.M. Amsterdam : Elsevier Science Publishers B.V. Applied animal behaviour science. Nov 1984. v. 13 (1/2). p. 129-141. Includes references. (NAL Call No.: DNAL QL750.A6).

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On the function of warning coloration: a black and yellow pattern inhibits prey-attack by naive domestic chicks.
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Ontogeny of teat fidelity in pigs and its relation to competition at suckling.
CNJNA. De Passille, A.M.B. Rushen, J.; Hartsock, T.G. Ottawa : Agricultural Institute of Canada. Canadian journal of animal science. June 1988. v. 68 (2). p. 325-338. Includes references. (NAL Call No.: DNAL 41.8 C163).

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Open-field behavior of young chicks (*Gallus gallus*): antipredatory responses, social reinstatement motivation, and gender effects.
ALBVA. Vallortigara, G. Zanforlin, M. Austin, Tex. : Psychonomic Society. Two experiments investigating sex differences in the open-field behavior of young chicks are reported. In the first experiment, ambulation latencies of 10-day-old male and female chicks in a novel environment were measured. Half of the chicks were kept in social isolation for 2 days prior to testing; the other half were socially reared until tested. Results showed that in socially reared chicks ambulation latencies were significantly higher in males than in females, whereas in isolation-reared chicks there were no significant sex differences. In the second experiment, latencies of ambulation were measured in socially reared 10-day-old chicks placed in a novel environment with or without a visible predator (i.e., a human being). Sex differences were evident in both conditions, with males showing higher ambulation latencies than females. It is argued that sex differences in open-field behavior of chicks may be due to a stronger motivation for social reinstatement in females, which reduces the usual antipredatory reactions of chicks placed in a novel environment. Animal learning & behavior. Aug 1988. v. 16 (3). p. 359-362. Includes references. (NAL Call No.: DNAL QL785.A725).

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Operant conditioning in farm animals and its relevance to welfare (Temperature, illumination, pigs, ruminants).
Baldwin, B.A. CTVD. The Hague : Martinus Nijhoff. Current topics in veterinary medicine and animal science. 1983. Paper presented at the Seminar on Indicators Relevant to Farm Animal Welfare, Mariensee, 9-10 November 1982. v. 23. p. 117-120. Includes references. (NAL Call No.: SF600.C82).

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Operant determination of the cage and feeder size preferences of the laying hen.
Faure, J.M. Amsterdam : Elsevier Science Publishers B.V. Applied animal behaviour science. July 1986. v. 15 (4). p. 325-336. ill. Includes references. (NAL Call No.: DNAL QL750.A6).

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